

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
**WO 2004/005521 A1**

(51) International Patent Classification<sup>7</sup>: C12N 15/63,  
5/14, C07K 14/495

(21) International Application Number:  
PCT/US2003/021159

(22) International Filing Date: 3 July 2003 (03.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/393,439 3 July 2002 (03.07.2002) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,  
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,  
VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: EXPRESSION OF THE HUMAN IGF-1 IN TRANSGENIC PLASTIDS

**A. Native IGF-1**

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ggaccggagacgctctcggggctgagctgggtgatgctcttcagttcgtgtggagacaggggctttattcaacaagcccacagg  
gtatggctccagcagtcggagggcgctcagacaggcatcgtggatgagtgctgcttcggagctgtgatctaaggaggctggagatg  
tattgcgcaccctcaagcctccaagtcagct
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**B. Synthetic IGF-1**

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ggctcgaaccttatgtggtgctgaattagatgctttacaattcgtatgtggatcgtgtttctattcaacaaacctactggttacgg  
tcttctctcgtcgtgctcctcaaacgtgattgtagatgaattgtttccgttctgtgatttacgtcgttagaaatgtactgtgctccttaaaa  
cctgctaattcgt
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(57) Abstract: A plastid transformation vector for a stably transforming a plastid genome, comprising, as operably-linked compo-  
nents, a first flanking sequence, a DNA sequence coding for synthetic insulin-like growth factor-1 (IGF-1s) (seek ID NO. 1) or a  
substantially homologous DNA sequence of IGF-1s, which is capable of expression in the plastid genome, and a second flanking  
sequence.